

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 7577/38	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 b. low.	
International application No. PCT/US 00/ 14405	International filing date (day/month/year) 25/05/2000	(Earliest) Priority Date (day/month/year) 26/05/1999
Applicant THE PROCTER & GAMBLE COMPANY		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 3 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing:

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☐ **Certain claims were found unsearchable** (See Box I).

3. ☐ **Unity of invention is lacking** (see Box II).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No. _____

☐ as suggested by the applicant.

☐ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

☐ None of the figures.

INTERNATIONAL SEARCH REPORT

International Application No

CT/US 00/14405

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C11D3/37 A61K7/48 C11D3/30

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C11D A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P, X	WO 99 27058 A (KASTURI CHANDRIKA ;KLUESENER BERNARD WILLIAM (US); SCHAFER MICHAEL) 3 June 1999 (1999-06-03) cited in the application claims 1-11; examples; tables ---	1, 4, 8, 11-13, 15-23, 26, 27
P, X	WO 99 27054 A (KASTURI CHANDRIKA ;SCHAFER MICHAEL GAYLE (US); PROCTER & GAMBLE (U) 3 June 1999 (1999-06-03) cited in the application claims 1-10; examples; tables ---	1, 15-23, 26, 27
P, X	WO 99 27053 A (KASTURI CHANDRIKA ;KLUESENER BERNARD WILLIAM (US); SCHAFER MICHAEL) 3 June 1999 (1999-06-03) cited in the application claims 1-10; examples; tables ---	1, 4, 6, 7, 14-23, 26
	-/--	



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

11 September 2000

Date of mailing of the international search report

20/09/2000

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Loiselet-Taisne, S

INTERNATIONAL SEARCH REPORT

International Application No

CT/US 00/14405

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GB 1 584 127 A (NAT STARCH CHEM CORP) 4 February 1981 (1981-02-04) page 3, line 58 -page 4, line 5; claims 1-4; examples I-VIII; tables I-III ---	1-5,8, 10-13, 15-17, 22-24
X	US 4 784 789 A (JESCHKE PETER ET AL) 15 November 1988 (1988-11-15) claims 1-13; examples XI,XII ---	1,8, 15-17, 22,23,27
X	DE 195 45 630 A (HENKEL KGAA) 12 June 1997 (1997-06-12) polymer b claims 3-14; examples B3,B8,B13,B17,B21; tables 1,2,5-5 ---	1,8, 15-17, 22,23,27
X	EP 0 013 585 A (UNILEVER LTD) 24 April 1985 (1985-04-24) page 1, line 4 - line 7; claims 1,11 ---	1,4,5, 15-17, 22,23
X	EP 0 308 190 A (PROCTER & GAMBLE) 22 March 1989 (1989-03-22) page 6, line 53 - line 60; claims 1,10; examples G,H; table 2 ---	8-10,12, 23,24
X,P	PATENT ABSTRACTS OF JAPAN vol. 1999, no. 13, 30 November 1999 (1999-11-30) & JP 11 217588 A (NOF CORP;NAKABAYASHI NORIO; ISHIHARA KAZUHIKO), 10 August 1999 (1999-08-10) abstract -----	1

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

CT/US 00/14405

Patent document cited in search report		Publication dat	Patent family member(s)		Publication dat
WO 9927058	A	03-06-1999	AU 1532299 A		15-06-1999
			EP 1032634 A		06-09-2000
WO 9927054	A	03-06-1999	NONE		
WO 9927053	A	03-06-1999	EP 1032632 A		06-09-2000
GB 1584127	A	04-02-1981	NONE		
US 4784789	A	15-11-1988	DE 3614336 A		29-10-1987
			AT 77403 T		15-07-1992
			DE 3779816 A		23-07-1992
			EP 0248185 A		09-12-1987
			JP 62260895 A		13-11-1987
			TR 23338 A		14-12-1989
DE 19545630	A	12-06-1997	BR 9611692 A		17-02-1999
			WO 9720908 A		12-06-1997
			EP 0876460 A		11-11-1998
EP 013585	A	23-07-1980	AR 221396 A		30-01-1981
			AT 1864 T		15-12-1982
			AU 528923 B		19-05-1983
			AU 5452980 A		17-07-1980
			BR 8000109 A		23-09-1980
			CA 1117843 A		09-02-1982
			DE 3061116 D		30-12-1982
			JP 1345644 C		29-10-1986
			JP 55098298 A		26-07-1980
			JP 61011280 B		02-04-1986
			NZ 192549 A		19-11-1981
			PH 18064 A		18-03-1985
			US 4368146 A		11-01-1983
			ZA 8000139 A		26-08-1981
EP 0308190	A	22-03-1989	AT 103801 T		15-04-1994
			AU 2233788 A		23-03-1989
			CA 1331728 A		30-08-1994
			DE 3888905 D		11-05-1994
			DE 3888905 T		18-08-1994
			ES 2063043 T		01-01-1995
			MX 170206 B		11-08-1993
			NZ 226220 A		29-01-1992
			US 5076953 A		31-12-1991
JP 11217588	A	10-08-1999	NONE		

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

14

Applicant's or agent's file reference 7577/3B	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/US00/14405	International filing date (day/month/year) 25/05/2000	Priority date (day/month/year) 26/05/1999
International Patent Classification (IPC) or national classification and IPC C11D3/37		
Applicant THE PROCTER & GAMBLE COMPANY		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.



2. This REPORT consists of a total of 8 sheets, including this cover sheet.

- ☐ This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of sheets.

3. This report contains indications relating to the following items:

- I ☒ Basis of the report
- II ☐ Priority
- III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV ☒ Lack of unity of invention
- V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI ☒ Certain documents cited
- VII ☐ Certain defects in the international application
- VIII ☒ Certain observations on the international application

Date of submission of the demand 13/11/2000	Date of completion of this report 17.05.2001
Name and mailing address of the international preliminary examining authority:  European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465	Authorized officer Yon, J-M Telephone No. +49 89 2399 7535 

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US00/14405

I. Basis of the report

1. With regard to the **elements** of the international application (*Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)*):

Description, pages:

1-178 as originally filed

Claims, No.:

1-27 as originally filed

2. With regard to the **language**, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language: , which is:

- ☐ the language of a translation furnished for the purposes of the international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of a translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. The amendments have resulted in the cancellation of:

- ☐ the description, pages:
- ☐ the claims, Nos.:
- ☐ the drawings, sheets:

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)):

**INTERNATIONAL PRELIMINARY
EXAMINATION REPORT**

International application No. PCT/US00/14405

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

6. Additional observations, if necessary:

IV. Lack of unity of invention

1. In response to the invitation to restrict or pay additional fees the applicant has:

- ☐ restricted the claims.
- ☐ paid additional fees.
- ☐ paid additional fees under protest.
- ☐ neither restricted nor paid additional fees.

2. ☐ This Authority found that the requirement of unity of invention is not complied and chose, according to Rule 68.1, not to invite the applicant to restrict or pay additional fees.

3. This Authority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is

- ☐ complied with.
- ☐ not complied with for the following reasons:

4. Consequently, the following parts of the international application were the subject of international preliminary examination in establishing this report:

- ☒ all parts.
- ☐ the parts relating to claims Nos. .

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Yes:	Claims	4-27
	No:	Claims	1-3
Inventive step (IS)	Yes:	Claims	
	No:	Claims	1-27
Industrial applicability (IA)	Yes:	Claims	1-27
	No:	Claims	

**INTERNATIONAL PRELIMINARY
EXAMINATION REPORT**

International application No. PCT/US00/14405

2. Citations and explanations
see separate sheet

VI. Certain documents cited

1. Certain published documents (Rule 70.10)

and / or

2. Non-written disclosures (Rule 70.9)

see separate sheet

VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet

**INTERNATIONAL PRELIMINARY
EXAMINATION REPORT - SEPARATE SHEET**

International application No. PCT/US00/14405

1. Reference is made to the following documents from the search report :

D1: EP-A-0 308 190 (PROCTER & GAMBLE) 22 March 1989 (1989-03-22)

D2 : DE 195 45 630 A (HENKEL KGAA) 12 June 1997 (1997-06-12)

D3 : EP-A-0 013 585 (UNILEVER LTD) 24 April 1985 (1985-04-24)

D4 : WO 99 27058 A (KASTURI CHANDRIKA ;KLUESENER BERNARD WILLIAM (US); SCHAFFER MICHAEL) 3 June 1999 (1999-06-03) cited in the application

D5 : WO 99 27054 A (KASTURI CHANDRIKA ;SCHAFFER MICHAEL GAYLE (US); PROCTER & GAMBLE (U) 3 June 1999 (1999-06-03) cited in the application

D6 : WO 99 27053 A (KASTURI CHANDRIKA ;KLUESENER BERNARD WILLIAM (US); SCHAFFER MICHAEL) 3 June 1999 (1999-06-03) cited in the application

Re Item IV

Lack of unity of invention

2. It is known that in order to improve the mildness of a composition, some specific compounds may be added. All method claims from 1 to 3 and 26 comprise three different kinds of polymers, namely from a) to c), which do not have a single general linking concept. That is to say that all method claims comprising component a) have to be considered as a separate invention from method claims comprising component b) and from method claims comprising component c).

For this reason, the present application lacks unity (Rule 13.1 PCT).

Re Item V

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

3.1 The problem of obtaining a detergent composition having good cleaning properties while being mild enough on the users skin which is addressed in the present application

has already been identified in **D1**. The purpose of said document was to achieve toilet bars maintaining the lather and cleaning properties while having a benefit in term of skin mildness (page 2, lines 28-31, page 3, lines 21-23).

Further in the description (page 7, lines 10-22), it is said that certain cationic polymers chemically interact with the anionic surfactants to form complexes which enhance the mildness to skin ; it is also added that among the cationic polymers, a copolymer of dimethylaminoethylmethacrylate and acrylamide was suitable. Said copolymer is actually covered by the formula of the monomeric unit of the polymeric suds stabilizer claimed in the present application. A method which comprises adding said compounds in a detergent composition in order to enhance its mildness is implicit.

Additionally, **D2** (claim 1 and Table 1, page 5) and **D3** (claim 1 and examples) disclose aqueous detergent compositions for use in hand dishwashing comprising polymers having a monomeric unit. The methods, although not specifically disclosed, are implicit since they just consist in contacting the user's hands with the detergent solution.

Therefore, claims 1 to 3 do not satisfy the criterion set forth in Art. 33(2) PCT.

3.2 All methods which are claimed in the present application are trivial methods, since they consist in adding the polymeric suds stabilizers to the detergent composition ; starting from the teaching of **D1**, the skilled man would try compounds with units capable of a having a cationic charge.

For this reason, claims 1-27 do not satisfy the criterion set forth in Art. 33(3) PCT.

3.3 The subject matter of the dependent claims is either already known from the cited documents or at least obvious for the man skilled in the art.

**INTERNATIONAL PRELIMINARY
EXAMINATION REPORT - SEPARATE SHEET**

International application No. PCT/US00/14405

Re Item VI

Certain documents cited

4.1 Certain published documents (Rule 70.10)

Application No Patent No	Publication date (day/month/year)	Filing date (day/month/year)	Priority date (valid claim) (day/month/year)
WO99/27058	03/06/99	20/11/98	21/11/97
WO99/27054	03/06/99	20/11/98	21/11/97
WO99/27053	03/06/99	20/11/98	21/11/97

D4, D5 and D6 disclose (claims and examples) aqueous detergent compositions for use in hand dishwashing wherein the technical features of claim 1 of the present application are present. The method which is trivial since it only consists in contacting the user's hands with the detergent solution is therefore implicit.

Said documents may become relevant when entering the national/regional phase.

Re Item VIII

Certain observations on the international application

4.1 Claims 8 to 10 and 27 pertain to units capable of having a cationic charge of from 4 to 12 ; on the other hand, the monomeric units defined in a) of claims 1 to 3 and 26 may also have said cationic charge.

Although claims 8 to 10 and 27 have been drafted as separate independent claims, they appear to relate effectively to the same subject-matter and to differ from each other only with regard to the definition of the subject-matter for which protection is sought. The aforementioned claims therefore lack conciseness. Moreover, lack of clarity of the claims

**INTERNATIONAL PRELIMINARY
EXAMINATION REPORT - SEPARATE SHEET**

International application No. PCT/US00/14405

as a whole arises, since the plurality of independent claims makes it difficult, if not impossible, to determine the matter for which protection is sought, and places an undue burden on others seeking to establish the extent of the protection.

Hence, claims 8 to 10 and 27 do not meet the requirements of Article 6 PCT.

The applicant has not filed an amended set of claims defining the relevant subject-matter in terms of a minimum number of independent claims followed by dependent claims covering features which are merely optional (Rule 6.4 PCT).

4.2 The part of claims 8 to 10 and 27 relating to "the average cationic charge density" is vague and unclear. The examiner doesn't find it plausible of defining a charge density value within such a broad range covering alkaline and acidic conditions (pH from 4 to 12), said parameter being by nature linked to a specific pH value. It thereby renders the definition of the subject-matter of present claims 8 to 10 and 27 unclear (Art. 6 PCT).

4.3 Claims 1 and 8 of the present application define the suds stabilizer by a result to be achieved, i.e. "such that a user's hand is not irritated" ; this illustrates an attempt to claim a desired result rather than the manner to achieve it. Moreover, the "irritated" criteria is not reliable, since it depends on each individual's skin, with its own sensitivity (Art. 6 PCT).

INTERNATIONAL SEARCH REPORT

National Application No.

PCT/US 00/14405

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C11D3/37 A61K7/48 C11D3/30

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C11D A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EP0-Internal, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,X	WO 99 27058 A (KASTURI CHANDRIKA ;KLUESENER BERNARD WILLIAM (US); SCHAFER MICHAEL) 3 June 1999 (1999-06-03) cited in the application claims 1-11; examples; tables	1,4,8, 11-13, 15-23, 26,27
P,X	WO 99 27054 A (KASTURI CHANDRIKA ;SCHAFER MICHAEL GAYLE (US); PROCTER & GAMBLE (U) 3 June 1999 (1999-06-03) cited in the application claims 1-10; examples; tables	1,15-23, 26,27
P,X	WO 99 27053 A (KASTURI CHANDRIKA ;KLUESENER BERNARD WILLIAM (US); SCHAFER MICHAEL) 3 June 1999 (1999-06-03) cited in the application claims 1-10; examples; tables	1,4,6,7, 14-23,26
	-/-	

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

11 September 2000

Date of mailing of the international search report

20/09/2000

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Loiselet-Taisne, S

INTERNATIONAL SEARCH REPORT

.nal Application No

PCT/US 00/14405

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GB 1 584 127 A (NAT STARCH CHEM CORP) 4 February 1981 (1981-02-04) page 3, line 58 -page 4, line 5; claims 1-4; examples I-VIII; tables I-III ---	1-5, 8, 10-13, 15-17, 22-24
X	US 4 784 789 A (JESCHKE PETER ET AL) 15 November 1988 (1988-11-15) claims 1-13; examples XI, XII ---	1, 8, 15-17, 22, 23, 27
X	DE 195 45 630 A (HENKEL KGAA) 12 June 1997 (1997-06-12) polymer b claims 3-14; examples B3, B8, B13, B17, B21; tables 1, 2, 5-5 ---	1, 8, 15-17, 22, 23, 27
X	EP 0 013 585 A (UNILEVER LTD) 24 April 1985 (1985-04-24) page 1, line 4 - line 7; claims 1, 11 ---	1, 4, 5, 15-17, 22, 23
X	EP 0 308 190 A (PROCTER & GAMBLE) 22 March 1989 (1989-03-22) page 6, line 53 - line 60; claims 1, 10; examples G, H; table 2 ---	8-10, 12, 23, 24
X, P	PATENT ABSTRACTS OF JAPAN vol. 1999, no. 13, 30 November 1999 (1999-11-30) & JP 11 217588 A (NOF CORP; NAKABAYASHI NORIO; ISHIHARA KAZUHIKO), 10 August 1999 (1999-08-10) abstract -----	1

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 00/14405

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 9927058	A	03-06-1999	AU 1532299 A EP 1032634 A	15-06-1999 06-09-2000
WO 9927054	A	03-06-1999	NONE	
WO 9927053	A	03-06-1999	EP 1032632 A	06-09-2000
GB 1584127	A	04-02-1981	NONE	
US 4784789	A	15-11-1988	DE 3614336 A AT 77403 T DE 3779816 A EP 0248185 A JP 62260895 A TR 23338 A	29-10-1987 15-07-1992 23-07-1992 09-12-1987 13-11-1987 14-12-1989
DE 19545630	A	12-06-1997	BR 9611692 A WO 9720908 A EP 0876460 A	17-02-1999 12-06-1997 11-11-1998
EP 013585	A	23-07-1980	AR 221396 A AT 1864 T AU 528923 B AU 5452980 A BR 8000109 A CA 1117843 A DE 3061116 D JP 1345644 C JP 55098298 A JP 61011280 B NZ 192549 A PH 18064 A US 4368146 A ZA 8000139 A	30-01-1981 15-12-1982 19-05-1983 17-07-1980 23-09-1980 09-02-1982 30-12-1982 29-10-1986 26-07-1980 02-04-1986 19-11-1981 18-03-1985 11-01-1983 26-08-1981
EP 0308190	A	22-03-1989	AT 103801 T AU 2233788 A CA 1331728 A DE 3888905 D DE 3888905 T ES 2063043 T MX 170206 B NZ 226220 A US 5076953 A	15-04-1994 23-03-1989 30-08-1994 11-05-1994 18-08-1994 01-01-1995 11-08-1993 29-01-1992 31-12-1991
JP 11217588	A	10-08-1999	NONE	